Empirical Laboratories, LLC

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10 August 2016

Doug Close
Bristol Environmental Remediation Services, LLC
111 West 16th Avenue, Third Floor
Anchorage, AK 99501

RE: RR5 Walter Reed Medical Center (Laboratory WorkOrder # 1607145)

Enclosed are the results of analyses for samples received by the laboratory on 07/20/2016 11:53. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Marianne J. Walker
Project Manager

Laboratory Case Narrative
for Laboratory WorkOrder # 1607145

The samples were received and processed using normal regulatory and laboratory protocols. Unless noted in the Final Report, there were no significant data anomalies or failures noted during data assessment and reporting. The results within this report relate only to the samples received and reported for this project and this report shall not be reproduced except in full, without the approval of Empirical Laboratories, LLC. Data uncertainty is linked to the method and regulatory mandated quality control data associated with the sample. Prior to accepting a Project, Empirical Laboratories, LLC verifies certification requirements and where applicable ensures that the requirements are in place prior to sample analysis. Many states do not carry matrix or program specific certifications. A listing of certifications held by Empirical Laboratories, LLC is included at the end of this report.

EPA 8082

To reduce matrix interference, the sample extract has undergone sulfuric acid clean-up, method 3665. The samples are flagged with the C5 qualifier.

CCV2 and CCV3 recovered slightly high for Aroclor-1242 and Aroclor-1248 on column 1, but were within acceptable criteria on column 2 and all associated samples were non-detect for these PCB's. The data was reported and flagged with the X qualifier.

Laboratory Analytical Results Report

Client Sample ID: WRTV88-D13.5-14
Sample Collection Date/Time: 07/19/2016 10:00
Lab Sample ID: 1607145-01
Sample Received Date/Time: 07/20/2016 11:53
Sample Matrix: Solid

Analyte	Result	MDL	RL	Units	Dilution	Analyzed	Method	Batch	Notes
Classical Chemistry Parameters									
% Solids	**85**	1.0	1.0	%	1	07/21/16 14:10	SM2540B	6G20231	
Organochlorine Pesticides and PCBs by GC									**C5**
Aroclor-1016	ND	4.84	19.4	ug/Kg dry	1	07/21/16 21:51	SW8082A	6G20230	U
Aroclor-1221	ND	4.84	19.4	ug/Kg dry	1	07/21/16 21:51	SW8082A	6G20230	U
Aroclor-1232	ND	4.84	19.4	ug/Kg dry	1	07/21/16 21:51	SW8082A	6G20230	U
Aroclor-1242	ND	4.84	19.4	ug/Kg dry	1	07/21/16 21:51	SW8082A	6G20230	XU
Aroclor-1248	ND	4.84	19.4	ug/Kg dry	1	07/21/16 21:51	SW8082A	6G20230	XU
Aroclor-1254	ND	4.84	19.4	ug/Kg dry	1	07/21/16 21:51	SW8082A	6G20230	U
Aroclor-1260	ND	4.84	19.4	ug/Kg dry	1	07/21/16 21:51	SW8082A	6G20230	U
Aroclor-1262	ND	4.84	19.4	ug/Kg dry	1	07/21/16 21:51	SW8082A	6G20230	U
Aroclor-1268	ND	4.84	19.4	ug/Kg dry	1	07/21/16 21:51	SW8082A	6G20230	U
Surrogate: Tetrachloro-m-xylene			*71.4 %*	*44-130*		*07/21/16 21:51*	*SW8082A*	*6G20230*	
Surrogate: Tetrachloro-m-xylene [2C]			*76.0 %*	*44-130*		*07/21/16 21:51*	*SW8082A*	*6G20230*	
Surrogate: Decachlorobiphenyl			*68.4 %*	*54-121*		*07/21/16 21:51*	*SW8082A*	*6G20230*	
Surrogate: Decachlorobiphenyl [2C]			*78.8 %*	*54-121*		*07/21/16 21:51*	*SW8082A*	*6G20230*	

Laboratory Analytical Results Report

Client Sample ID: WRTV88-D14-14.5
Sample Collection Date/Time: 07/19/2016 10:05
Lab Sample ID: 1607145-02
Sample Received Date/Time: 07/20/2016 11:53
Sample Matrix: Solid

Analyte	Result	MDL	RL	Units	Dilution	Analyzed	Method	Batch	Notes
Classical Chemistry Parameters									
% Solids	**77**	1.0	1.0	%	1	07/21/16 14:10	SM2540B	6G20231	
Organochlorine Pesticides and PCBs by GC									**C5**
Aroclor-1016	ND	5.30	21.2	ug/Kg dry	1	07/21/16 22:33	SW8082A	6G20230	U
Aroclor-1221	ND	5.30	21.2	ug/Kg dry	1	07/21/16 22:33	SW8082A	6G20230	U
Aroclor-1232	ND	5.30	21.2	ug/Kg dry	1	07/21/16 22:33	SW8082A	6G20230	U
Aroclor-1242	ND	5.30	21.2	ug/Kg dry	1	07/21/16 22:33	SW8082A	6G20230	XU
Aroclor-1248	ND	5.30	21.2	ug/Kg dry	1	07/21/16 22:33	SW8082A	6G20230	XU
Aroclor-1254	ND	5.30	21.2	ug/Kg dry	1	07/21/16 22:33	SW8082A	6G20230	U
Aroclor-1260 [2C]	**287**	5.30	21.2	ug/Kg dry	1	07/21/16 22:33	SW8082A	6G20230	
Aroclor-1262	ND	5.30	21.2	ug/Kg dry	1	07/21/16 22:33	SW8082A	6G20230	U
Aroclor-1268	ND	5.30	21.2	ug/Kg dry	1	07/21/16 22:33	SW8082A	6G20230	U
Surrogate: Tetrachloro-m-xylene			*59.8 %*	*44-130*		*07/21/16 22:33*	*SW8082A*	*6G20230*	
Surrogate: Tetrachloro-m-xylene [2C]			*64.7 %*	*44-130*		*07/21/16 22:33*	*SW8082A*	*6G20230*	
Surrogate: Decachlorobiphenyl			*73.0 %*	*54-121*		*07/21/16 22:33*	*SW8082A*	*6G20230*	
Surrogate: Decachlorobiphenyl [2C]			*85.6 %*	*54-121*		*07/21/16 22:33*	*SW8082A*	*6G20230*	

Laboratory Analytical Results Report

Client Sample ID: WRTV88-A11.5-12
Sample Collection Date/Time: 07/19/2016 11:35
Lab Sample ID: 1607145-03
Sample Received Date/Time: 07/20/2016 11:53
Sample Matrix: Solid

Analyte	Result	MDL	RL	Units	Dilution	Analyzed	Method	Batch	Notes
Classical Chemistry Parameters									
% Solids	**80**	1.0	1.0	%	1	07/21/16 14:10	SM2540B	6G20231	
Organochlorine Pesticides and PCBs by GC									**C5**
Aroclor-1016	ND	5.11	20.5	ug/Kg dry	1	07/21/16 22:47	SW8082A	6G20230	U
Aroclor-1221	ND	5.11	20.5	ug/Kg dry	1	07/21/16 22:47	SW8082A	6G20230	U
Aroclor-1232	ND	5.11	20.5	ug/Kg dry	1	07/21/16 22:47	SW8082A	6G20230	U
Aroclor-1242	ND	5.11	20.5	ug/Kg dry	1	07/21/16 22:47	SW8082A	6G20230	XU
Aroclor-1248	ND	5.11	20.5	ug/Kg dry	1	07/21/16 22:47	SW8082A	6G20230	XU
Aroclor-1254	ND	5.11	20.5	ug/Kg dry	1	07/21/16 22:47	SW8082A	6G20230	U
Aroclor-1260	ND	5.11	20.5	ug/Kg dry	1	07/21/16 22:47	SW8082A	6G20230	U
Aroclor-1262	ND	5.11	20.5	ug/Kg dry	1	07/21/16 22:47	SW8082A	6G20230	U
Aroclor-1268	ND	5.11	20.5	ug/Kg dry	1	07/21/16 22:47	SW8082A	6G20230	U
Surrogate: Tetrachloro-m-xylene			*62.7 %*	*44-130*		*07/21/16 22:47*	*SW8082A*	*6G20230*	
Surrogate: Tetrachloro-m-xylene [2C]			*77.3 %*	*44-130*		*07/21/16 22:47*	*SW8082A*	*6G20230*	
Surrogate: Decachlorobiphenyl			*64.4 %*	*54-121*		*07/21/16 22:47*	*SW8082A*	*6G20230*	
Surrogate: Decachlorobiphenyl [2C]			*77.1 %*	*54-121*		*07/21/16 22:47*	*SW8082A*	*6G20230*	

Laboratory Analytical Results Report

Client Sample ID: WRTV88-A13.5-14
Sample Collection Date/Time: 07/19/2016 11:40
Lab Sample ID: 1607145-04
Sample Received Date/Time: 07/20/2016 11:53
Sample Matrix: Solid

Analyte	Result	MDL	RL	Units	Dilution	Analyzed	Method	Batch	Notes
Classical Chemistry Parameters									
% Solids	**82**	1.0	1.0	%	1	07/21/16 14:10	SM2540B	6G20231	
Organochlorine Pesticides and PCBs by GC									**C5**
Aroclor-1016	ND	5.01	20.1	ug/Kg dry	1	07/21/16 23:01	SW8082A	6G20230	U
Aroclor-1221	ND	5.01	20.1	ug/Kg dry	1	07/21/16 23:01	SW8082A	6G20230	U
Aroclor-1232	ND	5.01	20.1	ug/Kg dry	1	07/21/16 23:01	SW8082A	6G20230	U
Aroclor-1242	ND	5.01	20.1	ug/Kg dry	1	07/21/16 23:01	SW8082A	6G20230	XU
Aroclor-1248	ND	5.01	20.1	ug/Kg dry	1	07/21/16 23:01	SW8082A	6G20230	XU
Aroclor-1254	ND	5.01	20.1	ug/Kg dry	1	07/21/16 23:01	SW8082A	6G20230	U
Aroclor-1260	ND	5.01	20.1	ug/Kg dry	1	07/21/16 23:01	SW8082A	6G20230	U
Aroclor-1262	ND	5.01	20.1	ug/Kg dry	1	07/21/16 23:01	SW8082A	6G20230	U
Aroclor-1268	ND	5.01	20.1	ug/Kg dry	1	07/21/16 23:01	SW8082A	6G20230	U
Surrogate: Tetrachloro-m-xylene			*73.8 %*	*44-130*		*07/21/16 23:01*	*SW8082A*	*6G20230*	
Surrogate: Tetrachloro-m-xylene [2C]			*76.8 %*	*44-130*		*07/21/16 23:01*	*SW8082A*	*6G20230*	
Surrogate: Decachlorobiphenyl			*73.0 %*	*54-121*		*07/21/16 23:01*	*SW8082A*	*6G20230*	
Surrogate: Decachlorobiphenyl [2C]			*83.1 %*	*54-121*		*07/21/16 23:01*	*SW8082A*	*6G20230*	

Laboratory Analytical Results Report

Client Sample ID: WRTV88-B13-13.5
Sample Collection Date/Time: 07/19/2016 13:55
Lab Sample ID: 1607145-05
Sample Received Date/Time: 07/20/2016 11:53
Sample Matrix: Solid

Analyte	Result	MDL	RL	Units	Dilution	Analyzed	Method	Batch	Notes
Classical Chemistry Parameters									
% Solids	**74**	1.0	1.0	%	1	07/21/16 14:10	SM2540B	6G20231	
Organochlorine Pesticides and PCBs by GC									**C5**
Aroclor-1016	ND	5.49	22.0	ug/Kg dry	1	07/21/16 23:15	SW8082A	6G20230	U
Aroclor-1221	ND	5.49	22.0	ug/Kg dry	1	07/21/16 23:15	SW8082A	6G20230	U
Aroclor-1232	ND	5.49	22.0	ug/Kg dry	1	07/21/16 23:15	SW8082A	6G20230	U
Aroclor-1242	ND	5.49	22.0	ug/Kg dry	1	07/21/16 23:15	SW8082A	6G20230	XU
Aroclor-1248	ND	5.49	22.0	ug/Kg dry	1	07/21/16 23:15	SW8082A	6G20230	XU
Aroclor-1254	ND	5.49	22.0	ug/Kg dry	1	07/21/16 23:15	SW8082A	6G20230	U
Aroclor-1260	ND	5.49	22.0	ug/Kg dry	1	07/21/16 23:15	SW8082A	6G20230	U
Aroclor-1262	ND	5.49	22.0	ug/Kg dry	1	07/21/16 23:15	SW8082A	6G20230	U
Aroclor-1268	ND	5.49	22.0	ug/Kg dry	1	07/21/16 23:15	SW8082A	6G20230	U
Surrogate: Tetrachloro-m-xylene			*71.7 %*	*44-130*		*07/21/16 23:15*	*SW8082A*	*6G20230*	
Surrogate: Tetrachloro-m-xylene [2C]			*71.3 %*	*44-130*		*07/21/16 23:15*	*SW8082A*	*6G20230*	
Surrogate: Decachlorobiphenyl			*67.0 %*	*54-121*		*07/21/16 23:15*	*SW8082A*	*6G20230*	
Surrogate: Decachlorobiphenyl [2C]			*73.6 %*	*54-121*		*07/21/16 23:15*	*SW8082A*	*6G20230*	

Laboratory Analytical Results Report

Client Sample ID: WRTV88-B14-14.5
Sample Collection Date/Time: 07/19/2016 13:55
Lab Sample ID: 1607145-06
Sample Received Date/Time: 07/20/2016 11:53
Sample Matrix: Solid

Analyte	Result	MDL	RL	Units	Dilution	Analyzed	Method	Batch	Notes
Classical Chemistry Parameters									
% Solids	**80**	1.0	1.0	%	1	07/21/16 14:10	SM2540B	6G20231	
Organochlorine Pesticides and PCBs by GC									**C5**
Aroclor-1016	ND	5.10	20.4	ug/Kg dry	1	07/21/16 23:30	SW8082A	6G20230	U
Aroclor-1221	ND	5.10	20.4	ug/Kg dry	1	07/21/16 23:30	SW8082A	6G20230	U
Aroclor-1232	ND	5.10	20.4	ug/Kg dry	1	07/21/16 23:30	SW8082A	6G20230	U
Aroclor-1242	ND	5.10	20.4	ug/Kg dry	1	07/21/16 23:30	SW8082A	6G20230	XU
Aroclor-1248	ND	5.10	20.4	ug/Kg dry	1	07/21/16 23:30	SW8082A	6G20230	XU
Aroclor-1254	ND	5.10	20.4	ug/Kg dry	1	07/21/16 23:30	SW8082A	6G20230	U
Aroclor-1260	ND	5.10	20.4	ug/Kg dry	1	07/21/16 23:30	SW8082A	6G20230	U
Aroclor-1262	ND	5.10	20.4	ug/Kg dry	1	07/21/16 23:30	SW8082A	6G20230	U
Aroclor-1268	ND	5.10	20.4	ug/Kg dry	1	07/21/16 23:30	SW8082A	6G20230	U
Surrogate: Tetrachloro-m-xylene			*81.3 %*	*44-130*		*07/21/16 23:30*	*SW8082A*	*6G20230*	
Surrogate: Tetrachloro-m-xylene [2C]			*83.6 %*	*44-130*		*07/21/16 23:30*	*SW8082A*	*6G20230*	
Surrogate: Decachlorobiphenyl			*74.3 %*	*54-121*		*07/21/16 23:30*	*SW8082A*	*6G20230*	
Surrogate: Decachlorobiphenyl [2C]			*81.8 %*	*54-121*		*07/21/16 23:30*	*SW8082A*	*6G20230*	

Laboratory Analytical Results Report

Client Sample ID: WRTV88-B14-14.5D
Sample Collection Date/Time: 07/19/2016 13:55
Lab Sample ID: 1607145-07
Sample Received Date/Time: 07/20/2016 11:53
Sample Matrix: Solid

Analyte	Result	MDL	RL	Units	Dilution	Analyzed	Method	Batch	Notes
Classical Chemistry Parameters									
% Solids	**81**	1.0	1.0	%	1	07/21/16 14:10	SM2540B	6G20231	
Organochlorine Pesticides and PCBs by GC									**C5**
Aroclor-1016	ND	5.10	20.4	ug/Kg dry	1	07/21/16 23:44	SW8082A	6G20230	U
Aroclor-1221	ND	5.10	20.4	ug/Kg dry	1	07/21/16 23:44	SW8082A	6G20230	U
Aroclor-1232	ND	5.10	20.4	ug/Kg dry	1	07/21/16 23:44	SW8082A	6G20230	U
Aroclor-1242	ND	5.10	20.4	ug/Kg dry	1	07/21/16 23:44	SW8082A	6G20230	XU
Aroclor-1248	ND	5.10	20.4	ug/Kg dry	1	07/21/16 23:44	SW8082A	6G20230	XU
Aroclor-1254	ND	5.10	20.4	ug/Kg dry	1	07/21/16 23:44	SW8082A	6G20230	U
Aroclor-1260	ND	5.10	20.4	ug/Kg dry	1	07/21/16 23:44	SW8082A	6G20230	U
Aroclor-1262	ND	5.10	20.4	ug/Kg dry	1	07/21/16 23:44	SW8082A	6G20230	U
Aroclor-1268	ND	5.10	20.4	ug/Kg dry	1	07/21/16 23:44	SW8082A	6G20230	U
Surrogate: Tetrachloro-m-xylene			*65.4 %*	*44-130*		*07/21/16 23:44*	*SW8082A*	*6G20230*	
Surrogate: Tetrachloro-m-xylene [2C]			*64.5 %*	*44-130*		*07/21/16 23:44*	*SW8082A*	*6G20230*	
Surrogate: Decachlorobiphenyl			*61.1 %*	*54-121*		*07/21/16 23:44*	*SW8082A*	*6G20230*	
Surrogate: Decachlorobiphenyl [2C]			*66.5 %*	*54-121*		*07/21/16 23:44*	*SW8082A*	*6G20230*	

Laboratory Analytical Results Report

Client Sample ID: WRTV88-C11-11.5
Sample Collection Date/Time: 07/19/2016 14:30
Lab Sample ID: 1607145-08
Sample Received Date/Time: 07/20/2016 11:53
Sample Matrix: Solid

Analyte	Result	MDL	RL	Units	Dilution	Analyzed	Method	Batch	Notes
Classical Chemistry Parameters									
% Solids	**86**	1.0	1.0	%	1	07/21/16 14:10	SM2540B	6G20231	
Organochlorine Pesticides and PCBs by GC									**C5**
Aroclor-1016	ND	4.73	18.9	ug/Kg dry	1	07/21/16 23:58	SW8082A	6G20230	U
Aroclor-1221	ND	4.73	18.9	ug/Kg dry	1	07/21/16 23:58	SW8082A	6G20230	U
Aroclor-1232	ND	4.73	18.9	ug/Kg dry	1	07/21/16 23:58	SW8082A	6G20230	U
Aroclor-1242	ND	4.73	18.9	ug/Kg dry	1	07/21/16 23:58	SW8082A	6G20230	XU
Aroclor-1248	ND	4.73	18.9	ug/Kg dry	1	07/21/16 23:58	SW8082A	6G20230	XU
Aroclor-1254	ND	4.73	18.9	ug/Kg dry	1	07/21/16 23:58	SW8082A	6G20230	U
Aroclor-1260	ND	4.73	18.9	ug/Kg dry	1	07/21/16 23:58	SW8082A	6G20230	U
Aroclor-1262	ND	4.73	18.9	ug/Kg dry	1	07/21/16 23:58	SW8082A	6G20230	U
Aroclor-1268	ND	4.73	18.9	ug/Kg dry	1	07/21/16 23:58	SW8082A	6G20230	U
Surrogate: Tetrachloro-m-xylene			*66.8 %*	*44-130*		*07/21/16 23:58*	*SW8082A*	*6G20230*	
Surrogate: Tetrachloro-m-xylene [2C]			*65.7 %*	*44-130*		*07/21/16 23:58*	*SW8082A*	*6G20230*	
Surrogate: Decachlorobiphenyl			*60.5 %*	*54-121*		*07/21/16 23:58*	*SW8082A*	*6G20230*	
Surrogate: Decachlorobiphenyl [2C]			*66.7 %*	*54-121*		*07/21/16 23:58*	*SW8082A*	*6G20230*	

Laboratory Analytical Results Report

Client Sample ID: WRTV88-C14-14.5
Sample Collection Date/Time: 07/19/2016 14:35
Lab Sample ID: 1607145-09
Sample Received Date/Time: 07/20/2016 11:53
Sample Matrix: Solid

Analyte	Result	MDL	RL	Units	Dilution	Analyzed	Method	Batch	Notes
Classical Chemistry Parameters									
% Solids	**83**	1.0	1.0	%	1	07/21/16 14:10	SM2540B	6G20231	
Organochlorine Pesticides and PCBs by GC									**C5**
Aroclor-1016	ND	4.94	19.8	ug/Kg dry	1	07/22/16 01:08	SW8082A	6G20230	U
Aroclor-1221	ND	4.94	19.8	ug/Kg dry	1	07/22/16 01:08	SW8082A	6G20230	U
Aroclor-1232	ND	4.94	19.8	ug/Kg dry	1	07/22/16 01:08	SW8082A	6G20230	U
Aroclor-1242	ND	4.94	19.8	ug/Kg dry	1	07/22/16 01:08	SW8082A	6G20230	U
Aroclor-1248	ND	4.94	19.8	ug/Kg dry	1	07/22/16 01:08	SW8082A	6G20230	U
Aroclor-1254	ND	4.94	19.8	ug/Kg dry	1	07/22/16 01:08	SW8082A	6G20230	U
Aroclor-1260	ND	4.94	19.8	ug/Kg dry	1	07/22/16 01:08	SW8082A	6G20230	U
Aroclor-1262	ND	4.94	19.8	ug/Kg dry	1	07/22/16 01:08	SW8082A	6G20230	U
Aroclor-1268	ND	4.94	19.8	ug/Kg dry	1	07/22/16 01:08	SW8082A	6G20230	U
Surrogate: Tetrachloro-m-xylene			*65.9 %*	*44-130*		*07/22/16 01:08*	*SW8082A*	*6G20230*	
Surrogate: Tetrachloro-m-xylene [2C]			*67.4 %*	*44-130*		*07/22/16 01:08*	*SW8082A*	*6G20230*	
Surrogate: Decachlorobiphenyl			*61.5 %*	*54-121*		*07/22/16 01:08*	*SW8082A*	*6G20230*	
Surrogate: Decachlorobiphenyl [2C]			*67.1 %*	*54-121*		*07/22/16 01:08*	*SW8082A*	*6G20230*	

Laboratory Analytical Results Report

Client Sample ID: WRTV15B0-6'' **Sample Collection Date/Time: 07/19/2016 14:15**

Lab Sample ID: 1607145-10 **Sample Received Date/Time: 07/20/2016 11:53**

Sample Matrix: Solid

Analyte	Result	MDL	RL	Units	Dilution	Analyzed	Method	Batch	Notes
Classical Chemistry Parameters									
% Solids	**85**	1.0	1.0	%	1	07/21/16 14:10	SM2540B	6G20231	
Organochlorine Pesticides and PCBs by GC									**C5**
Aroclor-1016	ND	23.8	95.3	ug/Kg dry	5	07/22/16 01:23	SW8082A	6G20230	U
Aroclor-1221	ND	23.8	95.3	ug/Kg dry	5	07/22/16 01:23	SW8082A	6G20230	U
Aroclor-1232	ND	23.8	95.3	ug/Kg dry	5	07/22/16 01:23	SW8082A	6G20230	U
Aroclor-1242	ND	23.8	95.3	ug/Kg dry	5	07/22/16 01:23	SW8082A	6G20230	U
Aroclor-1248	ND	23.8	95.3	ug/Kg dry	5	07/22/16 01:23	SW8082A	6G20230	U
Aroclor-1254	ND	23.8	95.3	ug/Kg dry	5	07/22/16 01:23	SW8082A	6G20230	U
Aroclor-1260 [2C]	**1430**	23.8	95.3	ug/Kg dry	5	07/22/16 01:23	SW8082A	6G20230	D
Aroclor-1262	ND	23.8	95.3	ug/Kg dry	5	07/22/16 01:23	SW8082A	6G20230	U
Aroclor-1268	ND	23.8	95.3	ug/Kg dry	5	07/22/16 01:23	SW8082A	6G20230	U
Surrogate: Tetrachloro-m-xylene			*78.1 %*	*44-130*		*07/22/16 01:23*	*SW8082A*	*6G20230*	
Surrogate: Tetrachloro-m-xylene [2C]			*81.2 %*	*44-130*		*07/22/16 01:23*	*SW8082A*	*6G20230*	
Surrogate: Decachlorobiphenyl			*76.4 %*	*54-121*		*07/22/16 01:23*	*SW8082A*	*6G20230*	
Surrogate: Decachlorobiphenyl [2C]			*94.3 %*	*54-121*		*07/22/16 01:23*	*SW8082A*	*6G20230*	

Laboratory Analytical Results Report

Client Sample ID: WRTV15B6-12'' **Sample Collection Date/Time: 07/19/2016 14:20**

Lab Sample ID: 1607145-11 **Sample Received Date/Time: 07/20/2016 11:53**

Sample Matrix: Solid

Analyte	Result	MDL	RL	Units	Dilution	Analyzed	Method	Batch	Notes
Classical Chemistry Parameters									
% Solids	**84**	1.0	1.0	%	1	07/21/16 14:10	SM2540B	6G20231	
Organochlorine Pesticides and PCBs by GC									**C5**
Aroclor-1016	ND	24.7	99.0	ug/Kg dry	5	07/22/16 01:37	SW8082A	6G20230	U
Aroclor-1221	ND	24.7	99.0	ug/Kg dry	5	07/22/16 01:37	SW8082A	6G20230	U
Aroclor-1232	ND	24.7	99.0	ug/Kg dry	5	07/22/16 01:37	SW8082A	6G20230	U
Aroclor-1242	ND	24.7	99.0	ug/Kg dry	5	07/22/16 01:37	SW8082A	6G20230	U
Aroclor-1248	ND	24.7	99.0	ug/Kg dry	5	07/22/16 01:37	SW8082A	6G20230	U
Aroclor-1254	ND	24.7	99.0	ug/Kg dry	5	07/22/16 01:37	SW8082A	6G20230	U
Aroclor-1260	**12300**	24.7	99.0	ug/Kg dry	5	07/22/16 01:37	SW8082A	6G20230	ED
Aroclor-1262	ND	24.7	99.0	ug/Kg dry	5	07/22/16 01:37	SW8082A	6G20230	U
Aroclor-1268	ND	24.7	99.0	ug/Kg dry	5	07/22/16 01:37	SW8082A	6G20230	U
Surrogate: Tetrachloro-m-xylene			*81.9 %*	*44-130*		*07/22/16 01:37*	*SW8082A*	*6G20230*	
Surrogate: Tetrachloro-m-xylene [2C]			*84.0 %*	*44-130*		*07/22/16 01:37*	*SW8082A*	*6G20230*	
Surrogate: Decachlorobiphenyl			*113 %*	*54-121*		*07/22/16 01:37*	*SW8082A*	*6G20230*	
Surrogate: Decachlorobiphenyl [2C]			*98.3 %*	*54-121*		*07/22/16 01:37*	*SW8082A*	*6G20230*	

Laboratory Analytical Results Report

Client Sample ID: WRTV15B6-12''
Sample Collection Date/Time: 07/19/2016 14:20
Lab Sample ID: 1607145-11RE1
Sample Received Date/Time: 07/20/2016 11:53
Sample Matrix: Solid

Analyte	Result	MDL	RL	Units	Dilution	Analyzed	Method	Batch	Notes
Organochlorine Pesticides and PCBs by GC									
Aroclor-1016	ND	247	990	ug/Kg dry	50	07/22/16 18:20	SW8082A	6G20230	U
Aroclor-1221	ND	247	990	ug/Kg dry	50	07/22/16 18:20	SW8082A	6G20230	U
Aroclor-1232	ND	247	990	ug/Kg dry	50	07/22/16 18:20	SW8082A	6G20230	U
Aroclor-1242	ND	247	990	ug/Kg dry	50	07/22/16 18:20	SW8082A	6G20230	U
Aroclor-1248	ND	247	990	ug/Kg dry	50	07/22/16 18:20	SW8082A	6G20230	U
Aroclor-1254	ND	247	990	ug/Kg dry	50	07/22/16 18:20	SW8082A	6G20230	U
Aroclor-1260	**14100**	247	990	ug/Kg dry	50	07/22/16 18:20	SW8082A	6G20230	D
Aroclor-1262	ND	247	990	ug/Kg dry	50	07/22/16 18:20	SW8082A	6G20230	U
Aroclor-1268	ND	247	990	ug/Kg dry	50	07/22/16 18:20	SW8082A	6G20230	U
Surrogate: Tetrachloro-m-xylene			*92.2 %*	*44-130*		*07/22/16 18:20*	*SW8082A*	*6G20230*	
Surrogate: Tetrachloro-m-xylene [2C]			*77.5 %*	*44-130*		*07/22/16 18:20*	*SW8082A*	*6G20230*	
Surrogate: Decachlorobiphenyl			*98.1 %*	*54-121*		*07/22/16 18:20*	*SW8082A*	*6G20230*	*Y*
Surrogate: Decachlorobiphenyl [2C]			*86.5 %*	*54-121*		*07/22/16 18:20*	*SW8082A*	*6G20230*	

Laboratory Analytical Results Report

Client Sample ID: PCB-RB
Sample Collection Date/Time: 07/19/2016 14:45
Lab Sample ID: 1607145-12
Sample Received Date/Time: 07/20/2016 11:53
Sample Matrix: Water

Analyte	Result	MDL	RL	Units	Dilution	Analyzed	Method	Batch	Notes
Organochlorine Pesticides and PCBs by GC									**C5**
Aroclor-1016	ND	0.128	0.532	ug/L	1	07/21/16 21:08	SW8082A	6G20235	U
Aroclor-1221	ND	0.128	0.532	ug/L	1	07/21/16 21:08	SW8082A	6G20235	U
Aroclor-1232	ND	0.128	0.532	ug/L	1	07/21/16 21:08	SW8082A	6G20235	U
Aroclor-1242	ND	0.128	0.532	ug/L	1	07/21/16 21:08	SW8082A	6G20235	XU
Aroclor-1248	ND	0.128	0.532	ug/L	1	07/21/16 21:08	SW8082A	6G20235	XU
Aroclor-1254	ND	0.128	0.532	ug/L	1	07/21/16 21:08	SW8082A	6G20235	U
Aroclor-1260	ND	0.128	0.532	ug/L	1	07/21/16 21:08	SW8082A	6G20235	U
Aroclor-1262	ND	0.128	0.532	ug/L	1	07/21/16 21:08	SW8082A	6G20235	U
Aroclor-1268	ND	0.128	0.532	ug/L	1	07/21/16 21:08	SW8082A	6G20235	U
Surrogate: Tetrachloro-m-xylene			*79.5 %*	*44-124*		*07/21/16 21:08*	*SW8082A*	*6G20235*	
Surrogate: Tetrachloro-m-xylene [2C]			*82.9 %*	*44-124*		*07/21/16 21:08*	*SW8082A*	*6G20235*	
Surrogate: Decachlorobiphenyl			*68.6 %*	*33-116*		*07/21/16 21:08*	*SW8082A*	*6G20235*	
Surrogate: Decachlorobiphenyl [2C]			*78.7 %*	*33-116*		*07/21/16 21:08*	*SW8082A*	*6G20235*	

Laboratory Analytical Results Report

Client Sample ID: WRTV15-A0-6'' **Sample Collection Date/Time: 07/19/2016 13:58**

Lab Sample ID: 1607145-13 **Sample Received Date/Time: 07/20/2016 11:53**

Sample Matrix: Solid

Analyte	Result	MDL	RL	Units	Dilution	Analyzed	Method	Batch	Notes
Classical Chemistry Parameters									
% Solids	**81**	1.0	1.0	%	1	07/21/16 14:10	SM2540B	6G20231	
Organochlorine Pesticides and PCBs by GC									**C5**
Aroclor-1016	ND	25.6	103	ug/Kg dry	5	07/22/16 01:51	SW8082A	6G20230	U
Aroclor-1221	ND	25.6	103	ug/Kg dry	5	07/22/16 01:51	SW8082A	6G20230	U
Aroclor-1232	ND	25.6	103	ug/Kg dry	5	07/22/16 01:51	SW8082A	6G20230	U
Aroclor-1242	ND	25.6	103	ug/Kg dry	5	07/22/16 01:51	SW8082A	6G20230	U
Aroclor-1248	ND	25.6	103	ug/Kg dry	5	07/22/16 01:51	SW8082A	6G20230	U
Aroclor-1254	ND	25.6	103	ug/Kg dry	5	07/22/16 01:51	SW8082A	6G20230	U
Aroclor-1260 [2C]	**2210**	25.6	103	ug/Kg dry	5	07/22/16 01:51	SW8082A	6G20230	D
Aroclor-1262	ND	25.6	103	ug/Kg dry	5	07/22/16 01:51	SW8082A	6G20230	U
Aroclor-1268	ND	25.6	103	ug/Kg dry	5	07/22/16 01:51	SW8082A	6G20230	U
Surrogate: Tetrachloro-m-xylene			*81.8 %*	*44-130*		*07/22/16 01:51*	*SW8082A*	*6G20230*	
Surrogate: Tetrachloro-m-xylene [2C]			*81.9 %*	*44-130*		*07/22/16 01:51*	*SW8082A*	*6G20230*	
Surrogate: Decachlorobiphenyl			*90.6 %*	*54-121*		*07/22/16 01:51*	*SW8082A*	*6G20230*	
Surrogate: Decachlorobiphenyl [2C]			*84.9 %*	*54-121*		*07/22/16 01:51*	*SW8082A*	*6G20230*	

Laboratory Analytical Results Report

Client Sample ID: WRTV15-A6-12'' **Sample Collection Date/Time: 07/19/2016 14:08**

Lab Sample ID: 1607145-14 **Sample Received Date/Time: 07/20/2016 11:53**

Sample Matrix: Solid

Analyte	Result	MDL	RL	Units	Dilution	Analyzed	Method	Batch	Notes
Classical Chemistry Parameters									
% Solids	**77**	1.0	1.0	%	1	07/21/16 14:10	SM2540B	6G20231	
Organochlorine Pesticides and PCBs by GC									**C5**
Aroclor-1016	ND	26.5	106	ug/Kg dry	5	07/22/16 02:05	SW8082A	6G20230	U
Aroclor-1221	ND	26.5	106	ug/Kg dry	5	07/22/16 02:05	SW8082A	6G20230	U
Aroclor-1232	ND	26.5	106	ug/Kg dry	5	07/22/16 02:05	SW8082A	6G20230	U
Aroclor-1242	ND	26.5	106	ug/Kg dry	5	07/22/16 02:05	SW8082A	6G20230	U
Aroclor-1248	ND	26.5	106	ug/Kg dry	5	07/22/16 02:05	SW8082A	6G20230	U
Aroclor-1254	ND	26.5	106	ug/Kg dry	5	07/22/16 02:05	SW8082A	6G20230	U
Aroclor-1260	**11600**	26.5	106	ug/Kg dry	5	07/22/16 02:05	SW8082A	6G20230	ED
Aroclor-1262	ND	26.5	106	ug/Kg dry	5	07/22/16 02:05	SW8082A	6G20230	U
Aroclor-1268	ND	26.5	106	ug/Kg dry	5	07/22/16 02:05	SW8082A	6G20230	U
Surrogate: Tetrachloro-m-xylene			*86.5 %*	*44-130*		*07/22/16 02:05*	*SW8082A*	*6G20230*	
Surrogate: Tetrachloro-m-xylene [2C]			*86.6 %*	*44-130*		*07/22/16 02:05*	*SW8082A*	*6G20230*	
Surrogate: Decachlorobiphenyl			*116 %*	*54-121*		*07/22/16 02:05*	*SW8082A*	*6G20230*	
Surrogate: Decachlorobiphenyl [2C]			*101 %*	*54-121*		*07/22/16 02:05*	*SW8082A*	*6G20230*	

Laboratory Analytical Results Report

Client Sample ID: WRTV15-A6-12'' **Sample Collection Date/Time: 07/19/2016 14:08**

Lab Sample ID: 1607145-14RE1 **Sample Received Date/Time: 07/20/2016 11:53**

Sample Matrix: Solid

Analyte	Result	MDL	RL	Units	Dilution	Analyzed	Method	Batch	Notes
Organochlorine Pesticides and PCBs by GC									
Aroclor-1016	ND	265	1060	ug/Kg dry	50	07/22/16 18:34	SW8082A	6G20230	U
Aroclor-1221	ND	265	1060	ug/Kg dry	50	07/22/16 18:34	SW8082A	6G20230	U
Aroclor-1232	ND	265	1060	ug/Kg dry	50	07/22/16 18:34	SW8082A	6G20230	U
Aroclor-1242	ND	265	1060	ug/Kg dry	50	07/22/16 18:34	SW8082A	6G20230	U
Aroclor-1248	ND	265	1060	ug/Kg dry	50	07/22/16 18:34	SW8082A	6G20230	U
Aroclor-1254	ND	265	1060	ug/Kg dry	50	07/22/16 18:34	SW8082A	6G20230	U
Aroclor-1260	**12200**	265	1060	ug/Kg dry	50	07/22/16 18:34	SW8082A	6G20230	D
Aroclor-1262	ND	265	1060	ug/Kg dry	50	07/22/16 18:34	SW8082A	6G20230	U
Aroclor-1268	ND	265	1060	ug/Kg dry	50	07/22/16 18:34	SW8082A	6G20230	U
Surrogate: Tetrachloro-m-xylene			*79.9 %*	*44-130*		*07/22/16 18:34*	*SW8082A*	*6G20230*	
Surrogate: Tetrachloro-m-xylene [2C]			*79.4 %*	*44-130*		*07/22/16 18:34*	*SW8082A*	*6G20230*	
Surrogate: Decachlorobiphenyl			*107 %*	*54-121*		*07/22/16 18:34*	*SW8082A*	*6G20230*	*Y*
Surrogate: Decachlorobiphenyl [2C]			*104 %*	*54-121*		*07/22/16 18:34*	*SW8082A*	*6G20230*	

Laboratory Analytical Results Report

Client Sample ID: WRTV15-C0-6'' **Sample Collection Date/Time: 07/19/2016 14:28**

Lab Sample ID: 1607145-15 **Sample Received Date/Time: 07/20/2016 11:53**

Sample Matrix: Solid

Analyte	Result	MDL	RL	Units	Dilution	Analyzed	Method	Batch	Notes
Classical Chemistry Parameters									
% Solids	**86**	1.0	1.0	%	1	07/21/16 14:10	SM2540B	6G20231	
Organochlorine Pesticides and PCBs by GC									**C5**
Aroclor-1016	ND	24.0	96.3	ug/Kg dry	5	07/22/16 02:19	SW8082A	6G20230	U
Aroclor-1221	ND	24.0	96.3	ug/Kg dry	5	07/22/16 02:19	SW8082A	6G20230	U
Aroclor-1232	ND	24.0	96.3	ug/Kg dry	5	07/22/16 02:19	SW8082A	6G20230	U
Aroclor-1242	ND	24.0	96.3	ug/Kg dry	5	07/22/16 02:19	SW8082A	6G20230	U
Aroclor-1248	ND	24.0	96.3	ug/Kg dry	5	07/22/16 02:19	SW8082A	6G20230	U
Aroclor-1254	ND	24.0	96.3	ug/Kg dry	5	07/22/16 02:19	SW8082A	6G20230	U
Aroclor-1260	**8820**	24.0	96.3	ug/Kg dry	5	07/22/16 02:19	SW8082A	6G20230	ED
Aroclor-1262	ND	24.0	96.3	ug/Kg dry	5	07/22/16 02:19	SW8082A	6G20230	U
Aroclor-1268	ND	24.0	96.3	ug/Kg dry	5	07/22/16 02:19	SW8082A	6G20230	U
Surrogate: Tetrachloro-m-xylene			*73.3 %*	*44-130*		*07/22/16 02:19*	*SW8082A*	*6G20230*	
Surrogate: Tetrachloro-m-xylene [2C]			*74.2 %*	*44-130*		*07/22/16 02:19*	*SW8082A*	*6G20230*	
Surrogate: Decachlorobiphenyl			*86.9 %*	*54-121*		*07/22/16 02:19*	*SW8082A*	*6G20230*	
Surrogate: Decachlorobiphenyl [2C]			*86.6 %*	*54-121*		*07/22/16 02:19*	*SW8082A*	*6G20230*	

Laboratory Analytical Results Report

Client Sample ID: WRTV15-C0-6''
Sample Collection Date/Time: 07/19/2016 14:28
Lab Sample ID: 1607145-15RE1
Sample Received Date/Time: 07/20/2016 11:53
Sample Matrix: Solid

Analyte	Result	MDL	RL	Units	Dilution	Analyzed	Method	Batch	Notes
Organochlorine Pesticides and PCBs by GC									
Aroclor-1016	ND	240	963	ug/Kg dry	50	07/22/16 18:49	SW8082A	6G20230	U
Aroclor-1221	ND	240	963	ug/Kg dry	50	07/22/16 18:49	SW8082A	6G20230	U
Aroclor-1232	ND	240	963	ug/Kg dry	50	07/22/16 18:49	SW8082A	6G20230	U
Aroclor-1242	ND	240	963	ug/Kg dry	50	07/22/16 18:49	SW8082A	6G20230	U
Aroclor-1248	ND	240	963	ug/Kg dry	50	07/22/16 18:49	SW8082A	6G20230	U
Aroclor-1254	ND	240	963	ug/Kg dry	50	07/22/16 18:49	SW8082A	6G20230	U
Aroclor-1260	**9500**	240	963	ug/Kg dry	50	07/22/16 18:49	SW8082A	6G20230	D
Aroclor-1262	ND	240	963	ug/Kg dry	50	07/22/16 18:49	SW8082A	6G20230	U
Aroclor-1268	ND	240	963	ug/Kg dry	50	07/22/16 18:49	SW8082A	6G20230	U
Surrogate: Tetrachloro-m-xylene			*72.4 %*	*44-130*		*07/22/16 18:49*	*SW8082A*	*6G20230*	
Surrogate: Tetrachloro-m-xylene [2C]			*72.9 %*	*44-130*		*07/22/16 18:49*	*SW8082A*	*6G20230*	
Surrogate: Decachlorobiphenyl			*158 %*	*54-121*		*07/22/16 18:49*	*SW8082A*	*6G20230*	*Y*
Surrogate: Decachlorobiphenyl [2C]			*86.9 %*	*54-121*		*07/22/16 18:49*	*SW8082A*	*6G20230*	

Laboratory Analytical Results Report

Client Sample ID: WRTV15-C6-12" **Sample Collection Date/Time: 07/19/2016 14:35**

Lab Sample ID: 1607145-16 **Sample Received Date/Time: 07/20/2016 11:53**

Sample Matrix: Solid

Analyte	Result	MDL	RL	Units	Dilution	Analyzed	Method	Batch	Notes
Classical Chemistry Parameters									
% Solids	**83**	1.0	1.0	%	1	07/21/16 14:10	SM2540B	6G20231	
Organochlorine Pesticides and PCBs by GC									**C5**
Aroclor-1016	ND	24.8	99.1	ug/Kg dry	5	07/22/16 02:33	SW8082A	6G20230	U
Aroclor-1221	ND	24.8	99.1	ug/Kg dry	5	07/22/16 02:33	SW8082A	6G20230	U
Aroclor-1232	ND	24.8	99.1	ug/Kg dry	5	07/22/16 02:33	SW8082A	6G20230	U
Aroclor-1242	ND	24.8	99.1	ug/Kg dry	5	07/22/16 02:33	SW8082A	6G20230	U
Aroclor-1248	ND	24.8	99.1	ug/Kg dry	5	07/22/16 02:33	SW8082A	6G20230	U
Aroclor-1254	ND	24.8	99.1	ug/Kg dry	5	07/22/16 02:33	SW8082A	6G20230	U
Aroclor-1260 [2C]	**4240**	24.8	99.1	ug/Kg dry	5	07/22/16 02:33	SW8082A	6G20230	D
Aroclor-1262	ND	24.8	99.1	ug/Kg dry	5	07/22/16 02:33	SW8082A	6G20230	U
Aroclor-1268	ND	24.8	99.1	ug/Kg dry	5	07/22/16 02:33	SW8082A	6G20230	U
Surrogate: Tetrachloro-m-xylene			*92.3 %*	*44-130*		*07/22/16 02:33*	*SW8082A*	*6G20230*	
Surrogate: Tetrachloro-m-xylene [2C]			*90.3 %*	*44-130*		*07/22/16 02:33*	*SW8082A*	*6G20230*	
Surrogate: Decachlorobiphenyl			*95.5 %*	*54-121*		*07/22/16 02:33*	*SW8082A*	*6G20230*	
Surrogate: Decachlorobiphenyl [2C]			*102 %*	*54-121*		*07/22/16 02:33*	*SW8082A*	*6G20230*	

Classical Chemistry Parameters - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6G20231											
Duplicate	**Source: 1607145-01**		Prepared: 07/20/2016 Analyzed: 07/21/2016								
% Solids	68.30	1.0	1.0	%		84.89			21.7	20	

Organochlorine Pesticides and PCBs by GC - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6G20230											
Blank				Prepared & Analyzed: 07/21/2016							
Aroclor-1016	ND	4.17	16.7	ug/Kg wet							U
Aroclor-1016 [2C]	ND	4.17	16.7	ug/Kg wet							U
Aroclor-1221	ND	4.17	16.7	ug/Kg wet							U
Aroclor-1221 [2C]	ND	4.17	16.7	ug/Kg wet							U
Aroclor-1232	ND	4.17	16.7	ug/Kg wet							U
Aroclor-1232 [2C]	ND	4.17	16.7	ug/Kg wet							U
Aroclor-1242	ND	4.17	16.7	ug/Kg wet							X, U
Aroclor-1242 [2C]	ND	4.17	16.7	ug/Kg wet							U
Aroclor-1248	ND	4.17	16.7	ug/Kg wet							X, U
Aroclor-1248 [2C]	ND	4.17	16.7	ug/Kg wet							U
Aroclor-1254	ND	4.17	16.7	ug/Kg wet							U
Aroclor-1254 [2C]	ND	4.17	16.7	ug/Kg wet							U
Aroclor-1260	ND	4.17	16.7	ug/Kg wet							U
Aroclor-1260 [2C]	ND	4.17	16.7	ug/Kg wet							U
Aroclor-1262	ND	4.17	16.7	ug/Kg wet							U
Aroclor-1262 [2C]	ND	4.17	16.7	ug/Kg wet							U
Aroclor-1268	ND	4.17	16.7	ug/Kg wet							U
Aroclor-1268 [2C]	ND	4.17	16.7	ug/Kg wet							U
Surrogate: Tetrachloro-m-xylene	*14.15*			*ug/Kg wet*	*16.67*		*84.9*	*44-130*			
Surrogate: Tetrachloro-m-xylene [2C]	*14.37*			*ug/Kg wet*	*16.67*		*86.2*	*44-130*			
Surrogate: Decachlorobiphenyl	*13.47*			*ug/Kg wet*	*16.67*		*80.8*	*54-121*			
Surrogate: Decachlorobiphenyl [2C]	*15.14*			*ug/Kg wet*	*16.67*		*90.8*	*54-121*			
LCS				Prepared & Analyzed: 07/21/2016							
Aroclor-1016	145.7	4.17	16.7	ug/Kg wet	166.7		87.4	47-134			
Aroclor-1016 [2C]	146.2	4.17	16.7	ug/Kg wet	166.7		87.7	47-134			
Aroclor-1260	142.6	4.17	16.7	ug/Kg wet	166.7		85.6	53-140			

Organochlorine Pesticides and PCBs by GC - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6G20230											
LCS				Prepared & Analyzed: 07/21/2016							
Aroclor-1260 [2C]	151.6	4.17	16.7	ug/Kg wet	166.7		90.9	53-140			
Surrogate: Tetrachloro-m-xylene	*14.70*			*ug/Kg wet*	*16.67*		*88.2*	*44-130*			
Surrogate: Tetrachloro-m-xylene [2C]	*15.59*			*ug/Kg wet*	*16.67*		*93.5*	*44-130*			
Surrogate: Decachlorobiphenyl	*14.16*			*ug/Kg wet*	*16.67*		*85.0*	*54-121*			
Surrogate: Decachlorobiphenyl [2C]	*15.96*			*ug/Kg wet*	*16.67*		*95.7*	*54-121*			
Matrix Spike	**Source: 1607145-01**			Prepared & Analyzed: 07/21/2016							
Aroclor-1016	151.7	4.84	19.4	ug/Kg dry	193.5	ND	78.4	47-134			
Aroclor-1016 [2C]	154.8	4.84	19.4	ug/Kg dry	193.5	ND	80.0	47-134			
Aroclor-1260	157.3	4.84	19.4	ug/Kg dry	193.5	ND	81.3	53-140			
Aroclor-1260 [2C]	177.5	4.84	19.4	ug/Kg dry	193.5	ND	91.7	53-140			
Surrogate: Tetrachloro-m-xylene	*15.08*			*ug/Kg dry*	*19.35*		*77.9*	*44-130*			
Surrogate: Tetrachloro-m-xylene [2C]	*16.55*			*ug/Kg dry*	*19.35*		*85.6*	*44-130*			
Surrogate: Decachlorobiphenyl	*15.33*			*ug/Kg dry*	*19.35*		*79.2*	*54-121*			
Surrogate: Decachlorobiphenyl [2C]	*17.72*			*ug/Kg dry*	*19.35*		*91.6*	*54-121*			
Matrix Spike Dup	**Source: 1607145-01**			Prepared & Analyzed: 07/21/2016							
Aroclor-1016	115.5	4.84	19.4	ug/Kg dry	193.3	ND	59.7	47-134	27.1	30	
Aroclor-1016 [2C]	116.3	4.84	19.4	ug/Kg dry	193.3	ND	60.2	47-134	28.4	30	
Aroclor-1260	116.6	4.84	19.4	ug/Kg dry	193.3	ND	60.3	53-140	29.7	30	
Aroclor-1260 [2C]	130.2	4.84	19.4	ug/Kg dry	193.3	ND	67.4	53-140	30.7	30	
Surrogate: Tetrachloro-m-xylene	*10.75*			*ug/Kg dry*	*19.33*		*55.6*	*44-130*			
Surrogate: Tetrachloro-m-xylene [2C]	*11.60*			*ug/Kg dry*	*19.33*		*60.0*	*44-130*			
Surrogate: Decachlorobiphenyl	*11.12*			*ug/Kg dry*	*19.33*		*57.5*	*54-121*			
Surrogate: Decachlorobiphenyl [2C]	*12.84*			*ug/Kg dry*	*19.33*		*66.5*	*54-121*			
Batch 6G20235											
Blank				Prepared: 07/20/2016 Analyzed: 07/21/2016							
Aroclor-1016	ND	0.120	0.500	ug/L							U
Aroclor-1016 [2C]	ND	0.120	0.500	ug/L							U
Aroclor-1221	ND	0.120	0.500	ug/L							U
Aroclor-1221 [2C]	ND	0.120	0.500	ug/L							U
Aroclor-1232	ND	0.120	0.500	ug/L							U

Organochlorine Pesticides and PCBs by GC - Quality Control

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6G20235											
Blank				Prepared: 07/20/2016 Analyzed: 07/21/2016							
Aroclor-1232 [2C]	ND	0.120	0.500	ug/L							U
Aroclor-1242	ND	0.120	0.500	ug/L							X, U
Aroclor-1242 [2C]	ND	0.120	0.500	ug/L							U
Aroclor-1248	ND	0.120	0.500	ug/L							X, U
Aroclor-1248 [2C]	ND	0.120	0.500	ug/L							U
Aroclor-1254	ND	0.120	0.500	ug/L							U
Aroclor-1254 [2C]	ND	0.120	0.500	ug/L							U
Aroclor-1260	ND	0.120	0.500	ug/L							U
Aroclor-1260 [2C]	ND	0.120	0.500	ug/L							U
Aroclor-1262	ND	0.120	0.500	ug/L							U
Aroclor-1262 [2C]	ND	0.120	0.500	ug/L							U
Aroclor-1268	ND	0.120	0.500	ug/L							U
Aroclor-1268 [2C]	ND	0.120	0.500	ug/L							U
Surrogate: Tetrachloro-m-xylene	*0.3592*			*ug/L*	*0.5000*		*71.8*	*44-124*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.3726*			*ug/L*	*0.5000*		*74.5*	*44-124*			
Surrogate: Decachlorobiphenyl	*0.3145*			*ug/L*	*0.5000*		*62.9*	*33-116*			
Surrogate: Decachlorobiphenyl [2C]	*0.3588*			*ug/L*	*0.5000*		*71.8*	*33-116*			
LCS				Prepared: 07/20/2016 Analyzed: 07/21/2016							
Aroclor-1016	3.700	0.120	0.500	ug/L	5.000		74.0	46-129			
Aroclor-1016 [2C]	3.701	0.120	0.500	ug/L	5.000		74.0	46-129			
Aroclor-1260	3.506	0.120	0.500	ug/L	5.000		70.1	45-134			
Aroclor-1260 [2C]	3.730	0.120	0.500	ug/L	5.000		74.6	45-134			
Surrogate: Tetrachloro-m-xylene	*0.3444*			*ug/L*	*0.5000*		*68.9*	*44-124*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.3782*			*ug/L*	*0.5000*		*75.6*	*44-124*			
Surrogate: Decachlorobiphenyl	*0.1888*			*ug/L*	*0.5000*		*37.8*	*33-116*			
Surrogate: Decachlorobiphenyl [2C]	*0.2194*			*ug/L*	*0.5000*		*43.9*	*33-116*			

Data Qualifiers

As applicable and where required, the following general qualifiers are associated with the sample results. Additional qualifiers will be specified within the reporting sections of the data package or within the body of the Case Narrative.

Analytical Report Terms and Qualifiers

DL: The detection limit (DL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The DL is supported by the method detection limit (MDL) which is determined from analysis of a sample containing the analyte in a given matrix.

LOD: The Limit of Detection is an estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte- and matrix-specific and may be laboratory-dependent. This definition is further clarified in the DoD QSM as the smallest amount or concentration of a substance that must be present in a sample in order to be detected at a high level of confidence (99%). At the LOD, the false negative rate (Type II error) is 1%.

LOQ: The Limit of Quantitation is the minimum level, concentration, or quantity of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. This term is further clarified within the DoD QSM as the lowest concentration that produces a quantitative result within specified limits of precision and bias.

***:** Exceeding quality control criteria are associated with the reported result.

B: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound. For Metals, the qualifier indicates that the serial dilution was outside of the control limits and the compound should be considered estimated due to the presence of interference.

H1: The result was analyzed outside of the EPA recommended holding time.

H2: The result was extracted outside of the EPA recommended holding time

H3: The sample for this analyte was received outside of the EPA recommended holding time.

J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The mass spectral data pass the identification criteria showing that the compound is present, but the calculated result is less than the LOQ. One should feel confident that the result is greater than zero and less than the LOQ.

M: Indicates that the sample matrix interfered with the quantitation of the analyte. In dual column analysis the result is reported from the column with the lower concentration. In inorganics, it indicates that the parameters DL/LOD/LOQ have been raised.

N: The MS/MSD accuracy and/or precision are outside criteria. The predigested spike recovery is not within control limits for the associated parameter.

P: The associated numerical value is an estimated quantity. There is greater than a 40% difference between the two GC columns for the detected concentrations. The higher of the two values is reported unless matrix interference is obvious or for HPLC analysis where the primary column is reported.

Q: The relative percent difference (RPD) and/or percent recovery exceeded limits in the associated Blank Spike and/or Blank Spike Duplicate.

S: The associated internal standard exceeded criteria.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the DL.

X: The parameter shows a potential positive bias on a reported concentration due to an ICV or CCV exceeding the upper control limit on the high side.

Y: The parameter shows a potential negative bias on a reported concentration due to an ICV or CCV exceeding the lower control limit on the low side.

Z: The parameter shows lack of confirmation/detection, which may be due to a negative bias in the ICV or CCV which exceeds the lower control limit.

EMPIRICAL LABORATORIES, LLC - CHAIN OF CUSTODY RE

SHIP TO: 621 Mainstream Drive, Suite 270 ♦ Nashville, TN 37228 ♦ 877-345-1113 ♦ (fax

1607145-01 A

Send Results to:	Send Invoice to:
Name PAUL LANDRY	Name Doug Close
Company Weston	Company BRISTOL
Address 1400 Weston Way	Address 111 W. 16th Ave 3rd Floor
City W. Chester	City Anchorage, Alaska 99501
State, Zip PA 19380	State, Zip
Phone (610) 701 3798	Phone 877 563-0013
Fax	Fax
E-mail P.Landry@Weston Solutions.com	E-mail dclose@Bristol-companies.com
Project No./Name: WR FIELD INVESTIGATION	Sampler's (Signature):

Analysis Requirements: PCBs Method 8082A

Lab Use Only			
VOA Headspace	Y	N	NA
Field Filtered	Y	N	NA
Correct Containers	Y	N	NA
Discrepancies	Y	N	NA
Cust. Seals Intact	Y	N	NA
Containers Intact	Y	N	NA

Airbill #:

CAR #:

Lab Use Only Lab #	Date/Time Sampled	Sample Description	Sample Matrix		Comments	No. of Bottles	Lab Use Only Containers/Pres.
01	7/19/16 10:00	WRTV88-D 13.5-14	SOIL	X			
02	7/19/16 10:05	WRTV88-D 14-14.5	SOIL	X			
03	7/19/16 11:35	WRTV88-A 11.5-12	SOIL	X			
04	7/19/16 11:40	WRTV88-A 13.5-14	SOIL	X			
05	7/19/16 13:30	WRTV88-B 13-13.5	SOIL	X			
06	7/19/16 13:35	WRTV88-B 14-14.5	SOIL	X			
07	7/19/16 13:35	WRTV88-B14-14.5D	SOIL	X	DUP		
08	7/19/16 14:30	WRTV88-C11-11.5	SOIL	X			
09	7/19/16 14:35	WRTV88C 14-14.5	SOIL	X			
10	7/19/16 14:15	WRTV15B0-6"	SOIL	X	DAC		
11	7/19/16 14:20	WRTV15B 6-12"	SOIL	X	DAC		
12	7/19/16 14:45	PCB-RB	WATER	2			

	Date/Time	
Sample Kit Prep'd by: (Signature)		Received By: (Signature)
Relinquished by: (Signature) Doug Close	7/19/16 1515	Received By: (Signature)
Relinquished by: (Signature)	07/19/16 1606	Received By: (Signature)
Received for Laboratory by: (Signature)	Date/Time 7.20.16 0850	Temperature 3.9

REMARKS:
PCBs as Aroclors Method 8082A
Low Detection Limit

Details:
Page _____ of _____
Cooler No. ____ of ____
Date Shipped _____
Shipped By _____
Turnaround _____

Distribution: Original and yellow copies accompany sample shipment to laboratory; Pink retained by samplers.

EMPIRICAL LABORATORIES, LLC - CHAIN OF CUSTODY RECORD

32044

SHIP TO: 621 Mainstream Drive, Suite 270 ♦ Nashville, TN 37228 ♦ 877-345-1113 ♦ (fax) 866-417-0548

Send Results to:	Send Invoice to:
Name PAUL LANDRY	Name DOUG CLOSE
Company WESTON	Company BRISTOL
Address 1400 WESTON WAY	Address 111 W 16TH AVE
City W. CHESTER	City ANCHORAGE AK
State, Zip PA 19380	State, Zip ALASKA 99501
Phone 610-701-3798	Phone 877-563-0013
Fax	Fax
E-mail P.LAUNDRY@WESTONSOLUTIONS.COM	E-mail dclose@bristol-companies.com
Project No./Name: WR FIELD INVESTIGATION	Sampler's (Signature): Doug Close

Analysis Requirements: PCBs Method 8082A

Lab Use Only:

VOA Headspace	Y	N	NA
Field Filtered	Y	N	NA
Correct Containers	Y	N	NA
Discrepancies	Y	N	NA
Cust. Seals Intact	Y	N	NA
Containers Intact	Y	N	NA

Airbill #: _____

CAR #: _____

Lab Use Only Lab #	Date/Time Sampled	Sample Description	Sample Matrix	PCBs Method 8082A	Comments	No. of Bottles	Lab Use Only Containers/Pres.
13	071916	WRTV15-A 0-6" 1358	SOIL	X			
14	071916	WRTV15A 6-12" 1400	SOIL	X			
15	071916	WRTV15B 0-6" 1428	SOIL	X			
16	071916	WRTV15C 6-12" 1435	SOIL	X			

	Date/Time		
Sample Kit Prep'd by: (Signature)		Received By: (Signature)	
Relinquished by: (Signature) Doug Close	Date/Time 071916 1516	Received By: (Signature)	
Relinquished by: (Signature)	Date/Time 08/19/16 1605	Received By: (Signature)	
Received for Laboratory by: (Signature)	Date/Time 7.20.16 0850	Temperature 3.9	

REMARKS:
PCBs As Aroclors M-8082A
LDL

Details:
Page _____ of _____
Cooler No. ____ of _____
Date Shipped _____
Shipped By _____
Turnaround _____

Distribution: Original and yellow copies accompany sample shipment to laboratory; Pink retained by samplers.

II. EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

Cooler Received/Opened On: 7/20/16@0850 Workorder# 1607145

1. Tracking # 1110 (last 4 digits, FedEx)

   Courier: ___FED-EX

2. Temperature of rep. sample or temp blank when opened: 3.7 °C + *correction factor (+0.2_)* = 3.9 °C

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES (NO) NA

4. Were custody seals on outside of cooler? (YES)...NO...NA

   If yes, how many and where: 2 front

5. Were the seals intact, signed, and dated correctly? (YES)...NO...NA

6. Were custody papers inside cooler? (YES)...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial/date) TH 7/20/16

7. Were custody seals on containers: YES (NO) and Intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing material used? (Bubblewrap) (Plastic bag) Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)...NO...NA

12. Did all container labels and tags agree with custody papers? (YES)...NO...NA

13. a. Were VOA vials received? (YES)...NO...NA 7.20.16

    b. Was there observable headspace present in any VOA vial (>5mm-6mm)? YES...(NO)...NA

14. Was there a Trip Blank in this cooler (custody seals present/intact)? YES...(NO)...NA...Comments_____
    If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (initial/date) 7.20.16

15. a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...(NA)

    b. Did the bottle labels indicate that the correct preservatives were used? YES...NO...(NA)

16. Was residual chlorine present for Cyanide "Effluent" samples? If so, treated/documented? YES...NO...(NA)

17. For 608 Pest/PCB samples, was pH <5 or >9? Was residual chlorine present? If either, adjusted/documented? YES...NO...(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-17 (initial/date) 7.20.16

18. Were custody papers properly filled out (ink, signed, etc)? (YES)...NO...NA

19. Did you sign the custody papers in the appropriate place? (YES)...NO...NA

20. Were correct containers used for the analysis requested? (YES)...NO...NA If not, PM notified? YES...NO...(NA)

21. Was sufficient amount of sample sent in each container? (YES)...NO...NA If not, PM notified? YES...NO...(NA)

22. Were there Non-Conformance issues at login? YES...(NO)...NCR#_____

I certify that I entered this project into LIMS and answered questions 18-22 (initial/date) 7.20.16

I certify that I attached a unique LIMS number label with matching sample name to each container (initial/date) 7.20.16

I certify that I notified the laboratory of any short holding time or RUSH parameters (initial/date) 7.20.16

DoD ELAP QSM5.0, Certificate Number L2226
- Aqueous
- Non-aqueous
- Expires: 11/30/2018

State of Florida, Department of Health – NELAP Primary, Lab ID: E87646
- Clean Water Act
- RCRA/CERCLA
- Expires: 06/30/2017

State of Georgia, Environmental Protection Agency – NELAP, Self Certification
- Expires: 06/30/2017

Commonwealth of Kentucky, Energy and Environment Cabinet – WWLCP, Laboratory Number: 98017
- Wastewater
- Expires: 12/31/2016

Commonwealth of Kentucky, Department of Environmental Protection – UST, Certificate Number: 77
- Aqueous
- Non-aqueous
- Expires: 06/30/2017

State of New Jersey, Department of Environmental Protection – NELAP, Lab ID: TN473
- Water Pollution
- Solid and Hazardous Waste
- Expires: 06/30/2017

State of North Carolina, Department of Environment and Natural Resources - Certificate Number: 643
- Aqueous
- Non-aqueous
- Expires: 12/31/2016

State of Texas, Commission on Environmental Quality – NELAP, Certificate Number: T104704307-16-12
- Aqueous
- Non-aqueous
- Expires: 12/31/2016

State of Utah, Department of Health – NELAP, Certificate Number: TN0042015-7
- Aqueous
- Non-aqueous
- Expires: 07/31/2016

Commonwealth of Virginia, Department of General Services – NELAP, Certificate Number: 8176, Lab ID: 460243
- Aqueous
- Non-aqueous
- Expires: 12/14/2016

State of Washington, Department of Ecology – NELAP, Lab ID: C934-16
- Groundwater
- Solid and Hazardous Waste
- Expires: 03/18/2017